



Otis



LOW-RISE ELECTRIC

DUMBWAITERS

STORES • SHOPS • RESTAURANTS • HOTELS • CLUBS • HOSPITALS • LABORATORIES • BANKS • SCHOOLS • SHIPS



Stores use Otis Undercounter Dumbwaiters to keep aisles free of cartons and crates . . . keep fast-moving stocks replenished.



Plants use Otis Electric Dumbwaiters for economical, time-saving floor-to-floor transportation of materials, supplies and stores.



Hospitals get speedy, sanitary transport of food trays, drugs and supplies to and from different floors with Otis Dumbwaiters.

What an OTIS ELECTRIC DUMBWAITER will do for you

An Otis Electric Dumbwaiter is a low-cost automatic workman. It saves time and energy. It carries heavy loads quickly, easily, and without damage or loss. It moves merchandise, equipment, records, and supplies to the location you want them—when you want them.

It helps you keep your display or working area always neat and uncluttered. It relieves your employees of time-wasting "chores" and exhausting stair-climbs.

And it takes up so little space that it can be installed right where you need it.

Drug stores, cafeterias and restaurants maintain the flow of "china" to dish-washing equipment via Otis Dumbwaiters.



Modern bars and cocktail lounges use Otis Dumbwaiters for quiet, efficient "traffic" between kitchens and serving bars.



Blueprint and photocopy companies use Otis Dumbwaiters to carry prints between production rooms and delivery counters.



Where Can **OTIS LOW-RISE DUMBWAITERS** Be Used?

The Otis Low-Rise, Drum-Type Electric Dumbwaiter will give you two-stop or three-stop automatic service for any rise up to 30' 6".* It requires no overhead machine room and is specifically designed for locations where overhead space is limited.

* For higher rises, the Otis Traction-Type Dumbwaiter is available.



Otis Dumbwaiters fill laboratories' need for safe movement of all fragile items between stockrooms, coldrooms and workrooms.



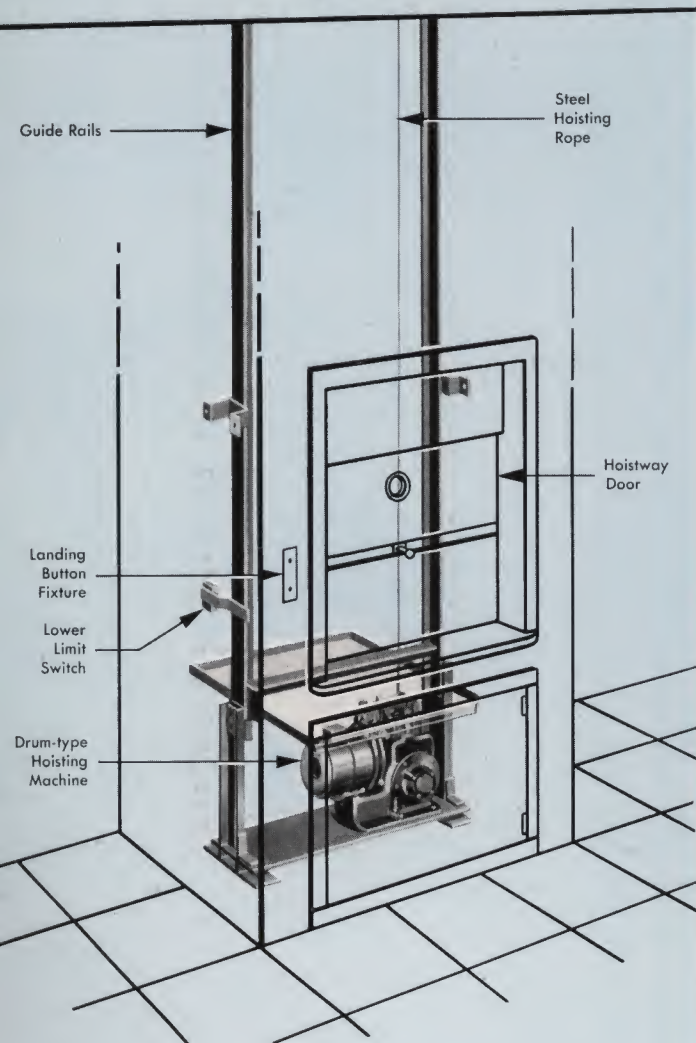
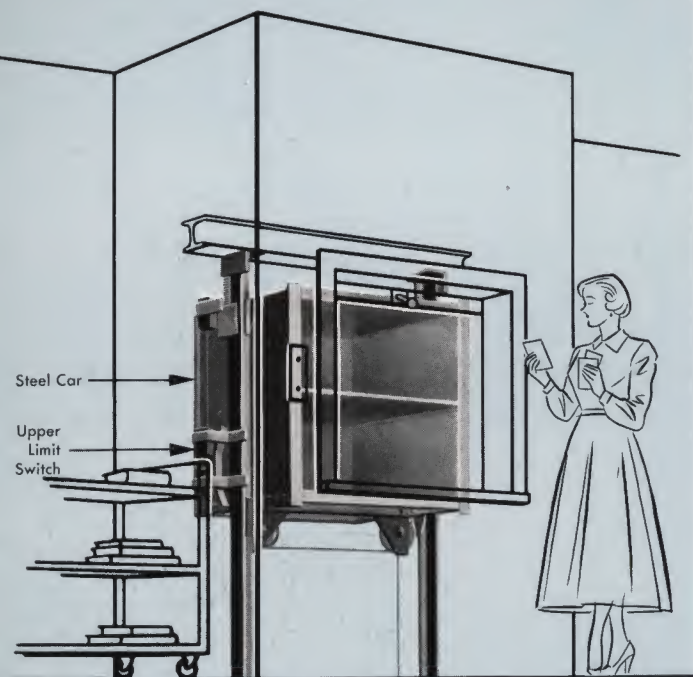
In libraries, books, periodicals and other items are speedily and easily handled with Otis Electric Dumbwaiters.



Busy banks use Otis Undercounter Dumbwaiters to carry cash to and from vaults, or checks and ledgers to bookkeeping staffs.

An Otis Electric Dumbwaiter can be made an integral part of your new building, or installed in any existing building. The Otis Dumbwaiter is dependable, safe to operate and easily cleaned. It will transport loads weighing up to 500 pounds.* Otis design, engineering, manufacture and installation *throughout* mean full value in every feature.

* Including weight of car - which varies from 160 to 260 pounds, depending on size.



OTIS LOW-RISE DUMBWAITER
(Conventional Arrangement)

OTIS LOW-RISE DUMBWAITERS are available in two arrangements

With the conventional arrangement of the Otis Low-Rise Dumbwaiter, the car stops 30" above the floor level at upper landings and 34" above the floor level at the lower landing. The other arrangement—the *Undercounter Dumbwaiter*—features a car specially designed to stop at floor level and fit under a counter at the upper landing.

Otis Electric Dumbwaiters are operated by automatic push buttons at each landing. Two-stop installations are normally wired for "call and send" operation. With this operation, there are two buttons at each landing, and the car can be called to or sent from either landing. Three-stop installations are usually arranged for "multi-button" operation. This is similar to "call and send" operation, except that there are three buttons at each landing—one call button and a separate send button for each of the other landings.

HOISTWAY DOORS can be of four types: Vertical biparting (shown), Vertical slide-up, Vertical slide-down, or Horizontal swing. Biparting type is recommended wherever space conditions permit.



WELDED ALL-STEEL CAR has removable steel trays and is sound-deadened. Available in unpainted stainless steel or gray lacquer finish.



CALL AND SEND FIXTURE is provided at each landing in a two-stop installation. This fixture contains two buttons, one for calling the car and one for sending it to the other landing.

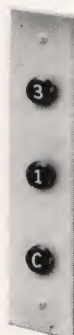


HOISTING MACHINE with steel winding drum is powered by 1½ H.P. Otis-built electric motor.



COMPACT ELECTRIC CONTROLLER is the "brains" of an Otis Low-Rise Dumbwaiter. Equipped with automatic magnet switches, it is designed and built to provide years of trouble-free service.

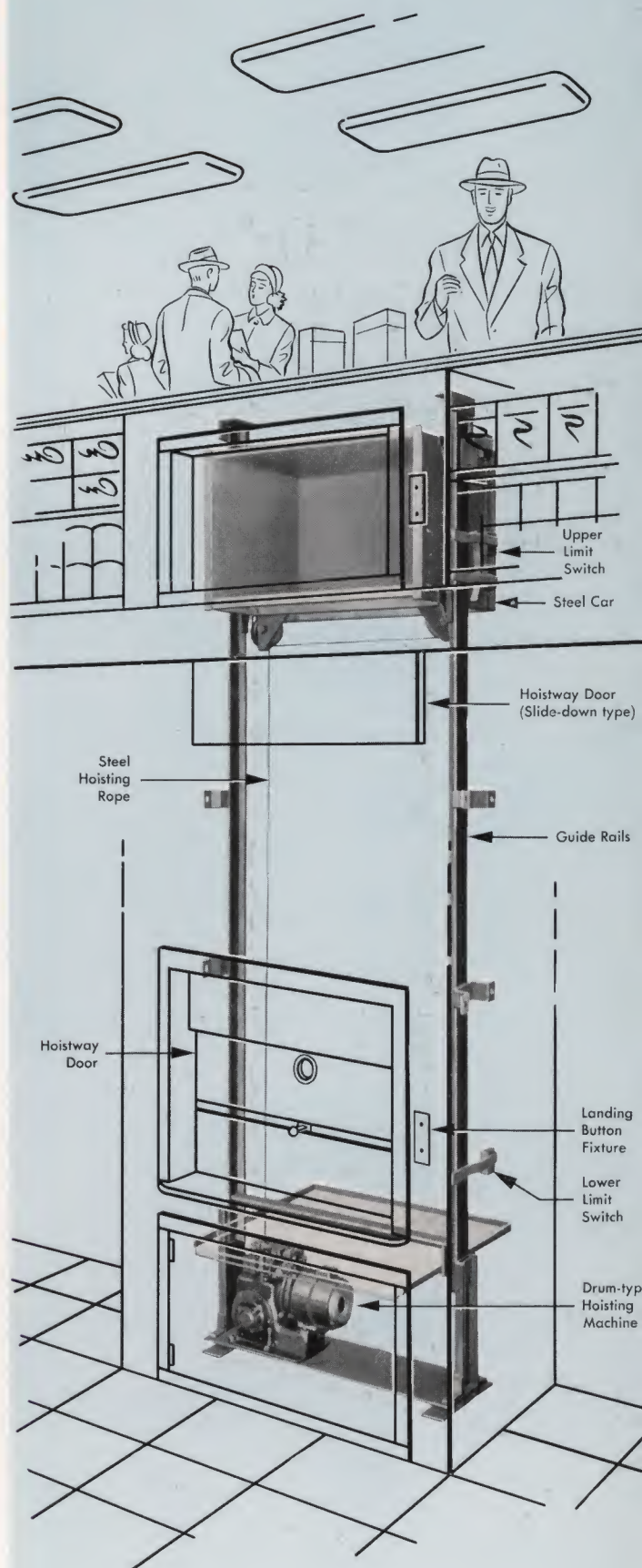
MULTI-BUTTON FIXTURE is furnished at each landing in a three-stop installation. This fixture has three buttons, one call button and two send buttons.



The hoisting machine is located in the hoistway below the lower landing. There is no counterweight. The car is underslung so that the hoist-rope travels under the car, over the overhead sheave, and thence down to the machine. The automatic controller can be mounted in any convenient location near the hoistway.

Steel guide rails support the weight of the car and its load. These rails are normally fastened to the building structure, but for installations where no load-bearing walls are available, a self-supporting steel hoistway frame can be supplied which transmits all loads to the bottom and saves the cost of reinforcing the hoistway.

Operation of the Otis Low-Rise Dumbwaiter is absolutely foolproof. The car cannot be operated while any hoistway door is open—and the doors cannot be opened unless the car is at the landing.



OTIS LOW-RISE DUMBWAITER
(Undercounter Arrangement)

OTIS LOW-RISE

Layout and Installation Data

• **OTIS FURNISHES:** Machinery . . . Car . . . Guide Rails . . . Control Equipment . . . Hoistway Doors . . . and everything required for a complete installation. Otis installs the Dumbwaiter and delivers it to you in perfect running condition.

• **YOU FURNISH:** Enclosed hoistway (with rough door openings) . . . Access door at bottom of hoistway . . . Suitable source of electric power. You also furnish electrical connections from source of power to controller, including fuse box, cutouts and circuit breakers to meet local code requirements.

HOISTWAY

Should be fully enclosed for fire protection. No pit required if lowest opening is 34" above floor. If bottom of shaft is directly over room or passageway, car can be equipped with automatic safety-stop devices.

GUIDE RAILS

Standard 8-lb. steel elevator tees, usually located at sides.

MACHINE

Drum-type, with 1½ H.P., Otis-built electric motor. Worm-gear drive (bronze gear operates in oil bath). Spring actuated, magnetically released brake. Ball and roller bearings used throughout.

CONTROLLER

Equipped with Otis electro-magnetic relays that respond automatically to calls registered on push buttons at landings. Contains protective devices to prevent motor damage from overload or excess current. Automatic safety magnet switch opens circuit and applies brake in case of power failure.

CAR

Sizes as shown in the table. Special sizes can be provided if required—not to exceed the 9-square-foot area and 48-inch height limitations set by American Standard Safety Code for Elevators. Constructed of sheet steel with reinforced angle iron frames. Unpainted stainless steel or gray lacquer finish. Sound-deadened. Can be provided with any number of removable steel shelves.

LIMIT SWITCHES

Open automatically if car travels beyond terminals, shut off power and set brake.

DOOR LOCKS AND CONTACTS

On each hoistway door to prevent dumbwaiter operation unless doors are closed. Also prevent opening of doors unless car is at landing. Required by American Standard Safety Code for Elevators.

CONTROLS AND SIGNALS

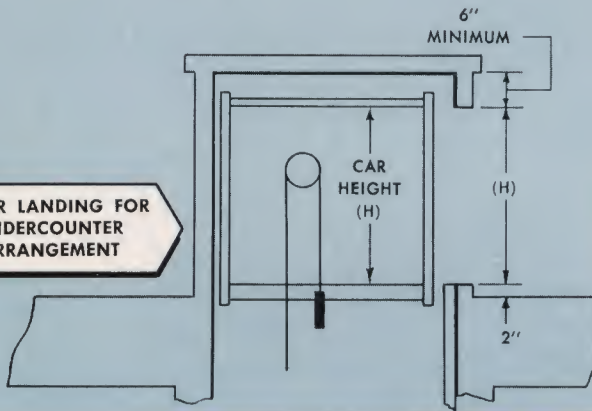
An automatic push-button fixture at each landing arranged for either "call-and-send" or "multi-button" operation, depending upon number of floors served. If desired, arrival of car at landing can be signalled by a "car-here" light in the push-button fixture, an overhead lantern and gong, a buzzer in the car, or by a combination of these signals. Push-button fixtures can also be equipped with "in-use" lights that show when car is busy.

RISE AND STOPS

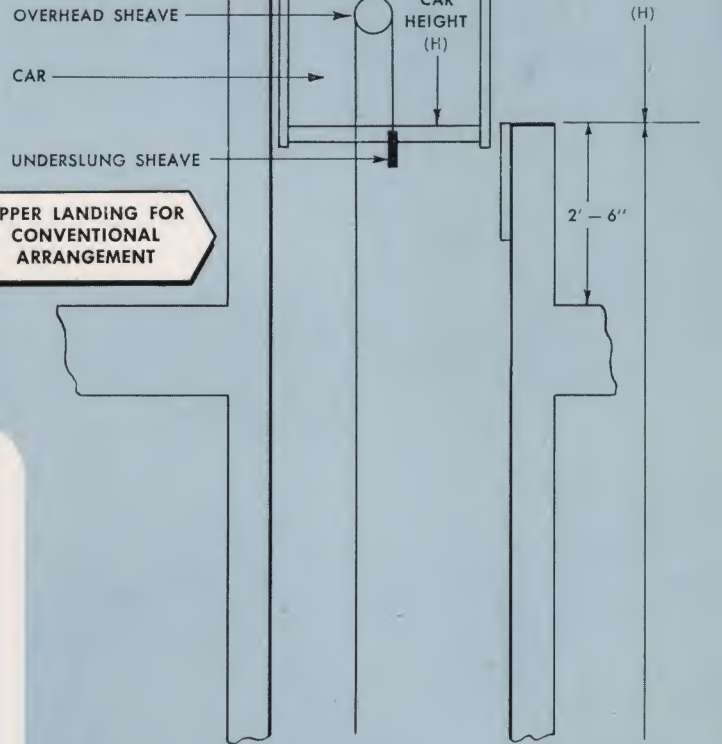
Maximum rise—30'—6". Maximum number of stops—three.

DUMBWAITERS

UPPER LANDING FOR UNDERCOUNTER ARRANGEMENT



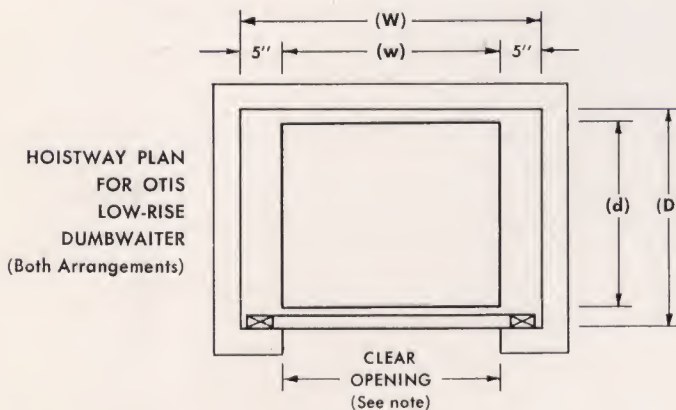
UPPER LANDING FOR CONVENTIONAL ARRANGEMENT



CAR		HOISTWAY (Approx.)	
Width (w)	Depth (d)	Width (W)	Depth (D)
2' - 0"	2' - 0"	2' - 10"	2' - 5"
2' - 0"	2' - 6"	2' - 10"	2' - 11"
2' - 0"	3' - 0"	2' - 10"	3' - 5"
2' - 6"	2' - 0"	3' - 4"	2' - 5"
2' - 6"	2' - 6"	3' - 4"	2' - 11"
2' - 6"	3' - 0"	3' - 4"	3' - 5"
3' - 0"	2' - 0"	3' - 10"	2' - 5"
3' - 0"	2' - 6"	3' - 10"	2' - 11"
3' - 0"	3' - 0"	3' - 10"	3' - 5"

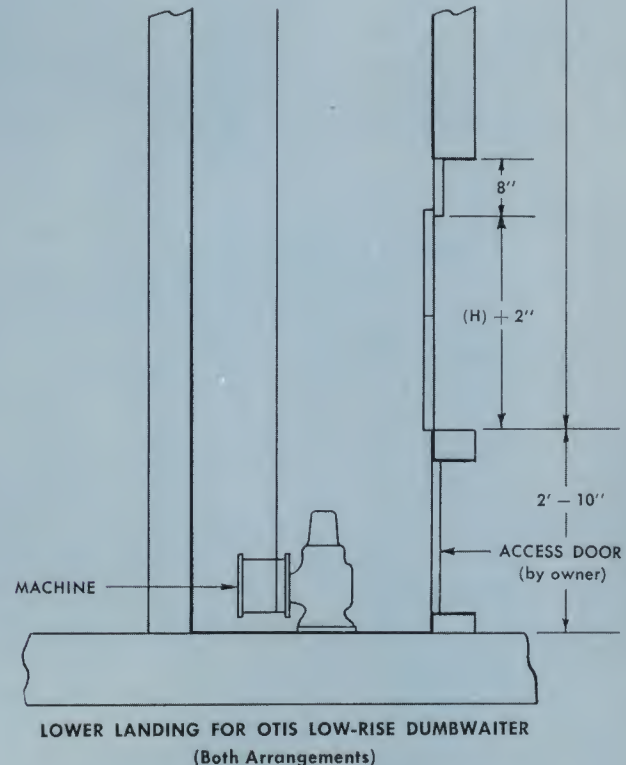
Standard Car Heights: Conventional Arrangement, 2'-6", 3'-0", 3'-6", 4'-0"
Undercounter Arrangement, 2'-6", 3'-0"

NOTE: Hoistway width may increase slightly with type of door used.



NOTE: Clear openings at upper landings are same as width of car. Clear opening at lower landing is width of car plus 4". Rough openings to receive finished door framings will vary with the type of door used.

MAXIMUM RISE
30' - 6"



There's an OTIS office close by . . .

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Little Rock

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Oakland 12
Pasadena 1
Sacramento 14
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San Diego 1
San Francisco 11
San Jose 2
Santa Barbara
Stockton 5

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Norwich
Stamford
Waterbury 85

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Pottsville
Reading
Scranton 3
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Wilkes-Barre
Williamsport 1
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Nashville 3

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Beaumont
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Dallas 1
El Paso
Fort Worth 2
Galveston
Houston 1
San Angelo
San Antonio 6
Tyler
Waco
Wichita Falls

UTAH
Salt Lake City 1

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Burlington

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Norfolk 10
Petersburg
Richmond 20
Roanoke 11

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Spokane 8
Tacoma 2
Walla Walla
Yakima

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OTIS ELEVATOR COMPANY

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